

## Claims:

1. A microchip having a microchannel formed by groove parts provided in connecting surfaces of upper and lower substrates, wherein the microchannel is provided with a gap part in which the section of the channel is reduced in a central part upward and downward, rightward and leftward, or upward and downward and rightward and leftward the section thereof.
2. The microchip according to claim 1, wherein the gap part is formed by protruding parts in the groove parts.
3. The microchip according to claim 2, wherein the gap part is formed by the opposed protruding parts in the groove parts provided respectively in the upper and lower substrates.
4. The microchip according to any one of claims 1 to 3, wherein the gap part is formed by inserting the protruding part of one substrate into the groove part of the other substrate.
5. The microchip according to any one of claims 1 to 4, the size of the section of the gap part can be varied by at least one movable protruding part of the upper and lower substrates.
6. The microchip according to any one of claims 1 to 5, wherein the size of the section of the gap part is a size necessary for checking microbeads inserted into the microchannel.
7. The microchip according to any one of claims 1 to 6, wherein the inner

wall surface of the microchannel is decorated with a surface treatment agent.

8. A kit for extracting nucleic acid including:

the microchip according to any one of claims 1 to 7; and

microbeads having surface hydroxyl groups.

9. The kit for extracting nucleic acid according to claim 8, wherein the microbeads having the surface hydroxyl groups are at least one kind of silica microbeads having a diameter of 10  $\mu\text{m}$  or smaller, hollow silica microbeads, and resin microbeads.

10. The kit for extracting nucleic acid according to claim 8 or 9, wherein in the microchannel of the microchip having the surface hydroxyl groups on the inner wall surface, the surface hydroxyl groups are coated with a surface treatment agent.

11. The kit for extracting nucleic acid according to claim 10, wherein the surface treatment agent is a silane coupling agent including trialkyl halogenosilane as a main component.

12. An extracting method for nucleic acid using the kit for extracting nucleic acid according any one of claims 8 to 11, wherein the nucleic acid in liquid to be processed is adsorbed on the surfaces of the microbeads in the microchannel of the microchip.

13. The extracting method for nucleic acid according to claim 12, wherein the nucleic acid is adsorbed on the surfaces of the microbeads under the existence of

chaotropic ions.